

15665007US1SEQLISTING.txt  
SEQUENCE LISTING

<110> CLAESSION WELSH, LENA  
OLSSON, ANNA-KARIN

<120> AN ENDOGENOUS PEPTIDE AND ACTIVE SUBFRAGMENTS THEREOF

<130> 15665-007US1

<140> 10/563,389

<141> 2006-01-05

<150> PCT/SE04/001091

<151> 2004-07-05

<150> SE 0301988-2

<151> 2003-07-07

<150> 60/485,185

<151> 2003-07-07

<160> 31

<170> PatentIn Ver. 3.3

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His His Pro His Ala His His Pro His Glu His Asp Thr His Arg Gln  
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His Pro His  
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<213> Homo sapiens

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Thr Lys Pro Pro Phe Lys Pro His Gly Ser Arg Asp His His Pro  
20 25 30

His Lys Pro His Glu His Gly Pro Pro Pro Pro Pro Asp Glu Arg Asp  
35 40 45

His Ser His Gly Pro Pro Leu Pro Gln Gly Pro Pro Pro Leu Leu Pro  
50 55 60

Met Ser Cys Ser Ser Cys Gln His Ala Thr Phe Gly Thr Asn Gly Ala  
65 70 75 80

Gln Arg His Ser His Asn Asn Asn Ser Ser Asp Leu His Pro His Lys  
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90

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His His Ser His Glu Gln His Pro His Gly His His Pro His Ala His  
 100 105 110  
 His Pro His Glu His Asp Thr His Arg Gln His Pro His Gly His His  
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 Leu Arg Ile Ala Asp Ala His Leu Asp Arg Val Glu Asn Thr Thr Val  
 35 40 45  
 Tyr Tyr Leu Val Leu Asp Val Gln Glu Ser Asp Cys Ser Val Leu Ser  
 50 55 60  
 Arg Lys Tyr Trp Asn Asp Cys Glu Pro Pro Asp Ser Arg Arg Pro Ser  
 65 70 75 80  
 Glu Ile Val Ile Gly Gln Cys Lys Val Ile Ala Thr Arg His Ser His  
 85 90 95  
 Glu Ser Gln Asp Leu Arg Val Ile Asp Phe Asn Cys Thr Thr Ser Ser  
 100 105 110  
 Val Ser Ser Ala Leu Ala Asn Thr Lys Asp Ser Pro Val Leu Ile Asp  
 115 120 125  
 Phe Phe Glu Asp Thr Glu Arg Tyr Arg Lys Gln Ala Asn Lys Ala Leu  
 130 135 140  
 Glu Lys Tyr Lys Glu Glu Asn Asp Asp Phe Ala Ser Phe Arg Val Asp  
 145 150 155 160  
 Arg Ile Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr Gly Tyr  
 165 170 175  
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 180 185 190  
 His Pro Asn Val Phe Gly Phe Cys Arg Ala Asp Leu Phe Tyr Asp Val  
 195 200 205  
 Glu Ala Leu Asp Leu Glu Ser Pro Lys Asn Leu Val Ile Asn Cys Glu  
 210 215 220

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Val Phe Asp Pro Gln Glu His Glu Asn Ile Asn Gly Val Pro Pro His  
 225 230 235 240  
 Leu Gly His Pro Phe His Trp Gly Gly His Glu Arg Ser Ser Thr  
 245 250 255  
 Lys Pro Pro Phe Lys Pro His Gly Ser Arg Asp His His His Pro His  
 260 265 270  
 Lys Pro His Glu His Gly Pro Pro Pro Pro Asp Glu Arg Asp His  
 275 280 285  
 Ser His Gly Pro Pro Leu Pro Gln Gly Pro Pro Pro Leu Leu Pro Met  
 290 295 300  
 Ser Cys Ser Ser Cys Gln His Ala Thr Phe Gly Thr Asn Gly Ala Gln  
 305 310 315 320  
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 325 330 335  
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 340 345 350  
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 355 360 365  
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 385 390 395 400  
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 420 425 430  
 His Cys Arg Gln Ile Gly Ser Val Tyr Arg Leu Pro Pro Leu Arg Lys  
 435 440 445  
 Gly Glu Val Leu Pro Leu Pro Glu Ala Asn Phe Pro Ser Phe Pro Leu  
 450 455 460  
 Pro His His Lys His Pro Leu Lys Pro Asp Asn Gln Pro Phe Pro Gln  
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His His His His His His His His His His  
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35 40 45

Tyr Tyr Leu Val Leu Asp Val Gln Glu Ser Asp Cys Ser Val Leu Ser  
50 55 60

Arg Lys Tyr Trp Asn Asp Cys Glu Pro Pro Asp Ser Arg Arg Pro Ser  
65 70 75 80

Glu Ile Val Ile Gly Gln Cys Lys Val Ile Ala Thr Arg His Ser His  
85 90 95

Glu Ser Gln Asp Leu Arg Val Ile Asp Phe Asn Cys Thr Thr Ser Ser  
100 105 110

Val Ser Ser Ala Leu Ala Asn Thr Lys Asp Ser Pro Val Leu Ile Asp  
115 120 125

Phe Phe Glu Asp Thr Glu Arg Tyr Arg Lys Gln Ala Asn Lys Ala Leu  
130 135 140

Glu Lys Tyr Lys Glu Glu Asn Asp Asp Phe Ala Ser Phe Arg Val Asp  
145 150 155 160

Arg Ile Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr Gly Tyr  
165 170 175

Phe Val Asp Phe Ser Val Arg Asn Cys Pro Arg His His Phe Pro Arg  
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His Pro Asn Val Phe Gly Phe Cys Arg Ala Asp Leu Phe Tyr Asp Val  
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20 25 30

Leu Arg Ile Ala Asp Ala His Leu Asp Arg Val Glu Asn Thr Thr Val  
35 40 45

Tyr Tyr Leu Val Leu Asp Val Gln Glu Ser Asp Cys Ser Val Leu Ser  
50 55 60

Arg Lys Tyr Trp Asn Asp Cys Glu Pro Pro Asp Ser Arg Arg Pro Ser  
65 70 75 80

Glu Ile Val Ile Gly Gln Cys Lys Val Ile Ala Thr Arg His Ser His  
85 90 95

Glu Ser Gln Asp Leu Arg Val Ile Asp Phe Asn Cys Thr Thr Ser Ser  
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Val Ser Ser Ala Leu Ala Asn Thr Lys Asp Ser Pro Val Leu Ile Asp  
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Phe Phe Glu Asp Thr Glu Arg Tyr Arg Lys Gln Ala Asn Lys Ala Leu  
130 135 140

Glu Lys Tyr Lys Glu Glu Asn Asp Asp Phe Ala Ser Phe Arg Val Asp  
145 150 155 160

Arg Ile Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr Gly Tyr  
165 170 175

Phe Val Asp Phe Ser Val Arg Asn Cys Pro Arg His His Phe Pro Arg  
180 185 190

His Pro Asn Val Phe Gly Phe Cys Arg Ala Asp Leu Phe Tyr Asp Val  
195 200 205

Glu Ala Leu Asp Leu Glu Ser Pro Lys Asn Leu Val Ile Asn Cys Glu  
210 215 220

Val Phe Asp Pro Gln Glu His Glu Asn Ile Asn Gly Val Pro Pro His  
225 230 235 240

Leu Gly His Pro Phe His Trp Gly Gly His Glu Arg Ser Ser Thr Thr  
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Lys Pro Pro Phe Lys Pro His Gly Ser Arg Asp His His His Pro His  
260 265 270

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Lys Pro His Glu His Gly Pro Pro Pro Pro Asp Glu Arg Asp His  
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 Leu Arg Ile Ala Asp Ala His Leu Asp Arg Val Glu Asn Thr Thr Val  
 35 40 45  
 Tyr Tyr Leu Val Leu Asp Val Gln Glu Ser Asp Cys Ser Val Leu Ser  
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 Arg Lys Tyr Trp Asn Asp Cys Glu Pro Pro Asp Ser Arg Arg Pro Ser  
 65 70 75 80  
 Glu Ile Val Ile Gly Gln Cys Lys Val Ile Ala Thr Arg His Ser His  
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 Glu Ser Gln Asp Leu Arg Val Ile Asp Phe Asn Cys Thr Thr Ser Ser  
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 Val Ser Ser Ala Leu Ala Asn Thr Lys Asp Ser Pro Val Leu Ile Asp  
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 Phe Phe Glu Asp Thr Glu Arg Tyr Arg Lys Gln Ala Asn Lys Ala Leu  
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 Glu Lys Tyr Lys Glu Glu Asn Asp Asp Phe Ala Ser Phe Arg Val Asp  
 145 150 155 160  
 Arg Ile Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr Gly Tyr  
 165 170 175  
 Phe Val Asp Phe Ser Val Arg Asn Cys Pro Arg His His Phe Pro Arg  
 180 185 190  
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 195 200 205  
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 Val Phe Asp Pro Gln Glu His Glu Asn Ile Asn Gly Val Pro Pro His  
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 Leu Gly His Pro Phe His Trp Gly Gly His Glu Arg Ser Ser Thr Thr

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245 250 255  
 Lys Pro Pro Phe Lys Pro His Gly Ser Arg Asp His His His Pro His  
 260 265 270  
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 290 295 300  
 Ser Cys Ser Ser Cys Gln His Ala Thr Phe Gly Thr Asn Gly Ala Gln  
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 340 345 350  
 Pro His Glu His Asp Thr His Arg Gln His Pro His Gly His His Pro  
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 35 40 45  
 His Ser His Gly Pro Pro Leu Pro Gln Gly Pro Pro Pro Leu Leu Pro  
 50 55 60  
 Met Ser Cys Ser Ser Cys Gln His Ala Thr Phe Gly Thr Asn Gly Ala  
 65 70 75 80  
 Gln Arg His Ser His Asn Asn Asn Ser Ser Asp Leu His Pro His Lys  
 85 90 95  
 His His Ser His Glu Gln His Pro His Gly His His Pro His Ala His  
 100 105 110  
 His Pro His Glu His Asp Thr His Arg Gln His Pro His Gly His His  
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 Lys Ala Leu Asp Leu Ile Asn Lys Arg Arg Arg Asp Gly Tyr Leu Phe  
 35 40 45  
 Gln Leu Leu Arg Ile Ala Asp Ala His Leu Asp Arg Val Glu Asn Thr  
 50 55 60  
 Thr Val Tyr Tyr Leu Val Leu Asp Val Gln Glu Ser Asp Cys Ser Val  
 65 70 75 80  
 Leu Ser Arg Lys Tyr Trp Asn Asp Cys Glu Pro Pro Asp Ser Arg Arg  
 85 90 95  
 Pro Ser Glu Ile Val Ile Gly Gln Cys Lys Val Ile Ala Thr Arg His  
 100 105 110  
 Ser His Glu Ser Gln Asp Leu Arg Val Ile Asp Phe Asn Cys Thr Thr  
 115 120 125  
 Ser Ser Val Ser Ser Ala Leu Ala Asn Thr Lys Asp Ser Pro Val Leu  
 130 135 140  
 Ile Asp Phe Phe Glu Asp Thr Glu Arg Tyr Arg Lys Gln Ala Asn Lys  
 145 150 155 160  
 Ala Leu Glu Lys Tyr Lys Glu Glu Asn Asp Asp Phe Ala Ser Phe Arg  
 165 170 175  
 Val Asp Arg Ile Glu Arg Val Ala Arg Val Arg Gly Gly Glu Gly Thr  
 180 185 190  
 Gly Tyr Phe Val Asp Phe Ser Val Arg Asn Cys Pro Arg His His Phe  
 195 200 205  
 Pro Arg His Pro Asn Val Phe Gly Phe Cys Arg Ala Asp Leu Phe Tyr  
 210 215 220  
 Asp Val Glu Ala Leu Asp Leu Glu Ser Pro Lys Asn Leu Val Ile Asn  
 225 230 235 240  
 Cys Glu Val Phe Asp Pro Gln Glu His Glu Asn Ile Asn Gly Val Pro  
 245 250 255  
 Pro His Leu Gly His Pro Phe His Trp Gly Gly His Glu Arg Ser Ser  
 260 265 270  
 Thr Thr Lys Pro Pro Phe Lys Pro His Gly Ser Arg Asp His His His  
 275 280 285  
 Pro His Lys Pro His Glu His Gly Pro Pro Pro Pro Asp Glu Arg  
 290 295 300  
 Asp His Ser His Gly Pro Pro Leu Pro Gln Gly Pro Pro Pro Leu Leu  
 305 310 315 320  
 Pro Met Ser Cys Ser Ser Cys Gln His Ala Thr Phe Gly Thr Asn Gly  
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325 330 335

Ala Gln Arg His Ser His Asn Asn Asn Ser Ser Asp Leu His Pro His  
340 345 350

Lys His His Ser His Glu Gln His Pro His Gly His His Pro His Ala  
355 360 365

His His Pro His Glu His Asp Thr His Arg Gln His Pro His Gly His  
370 375 380

His Pro His Gly His His Pro His Gly His His Pro His Gly His His  
385 390 395 400

Pro His Gly His His Pro His Cys His Asp Phe Gln Asp Tyr Gly Pro  
405 410 415

Cys Asp Pro Pro His Asn Gln Gly His Cys Cys His Gly His Gly  
420 425 430

Pro Pro Pro Gly His Leu Arg Arg Arg Gly Pro Gly Lys Gly Pro Arg  
435 440 445

Pro Phe His Cys Arg Gln Ile Gly Ser Val Tyr Arg Leu Pro Pro Leu  
450 455 460

Arg Lys Gly Glu Val Leu Pro Leu Pro Glu Ala Asn Phe Pro Ser Phe  
465 470 475 480

Pro Leu Pro His His Lys His Pro Leu Lys Pro Asp Asn Gln Pro Phe  
485 490 495

Pro Gln Ser Val Ser Glu Ser Cys Pro Gly Lys Phe Lys Ser Gly Phe  
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Pro Gln Val Ser Met Phe Phe Thr His Thr Phe Pro Lys  
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<400> 16

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Lys His His Ser His Glu Gln His Pro His Gly His His Pro His Ala  
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His His Pro His Glu His Asp Thr His Gly  
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<212> PRT

<213> Homo sapiens

<400> 17

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His His Pro His Glu His Asp Thr His  
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<210> 18

<211> 16

<212> PRT

<213> Artificial Sequence

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6xHis tag

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His His His His His His  
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<223> Description of Artificial Sequence: Synthetic  
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&lt;211&gt; 25

&lt;212&gt; PRT

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<223> Description of Artificial Sequence: Synthetic  
peptide

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20 25